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CLAIMS

- 1 Process for conservation of a cellulosic material, comprising a treatment wherein said cellulosic material is contacted with a stabilising agent, and at least one of the cellulosic material or the stabilising agent is cooled before and/or during the treatment.
- 2—Process according to claim 1, wherein at least one of the cellulosic material or the stabilising agent is cooled to a temperature which is less than 20°C.

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- 3 Process according to claim 2, wherein the temperature is from -50°C to 0°C, preferably from -20°C to -5°C.
 - 4 Process according to claim 2 or 3, wherein the treatment is carried out at said temperature.
 - 5 Process according to anyone of claims 1 to 4, wherein the cellulosic material and the stabilising agent have substantially the same temperature as they are being contacted.
 - 6—Process according to anyone of claims 1 to 4, wherein the stabilising agent is selected from fibre strengtheners, sizing agents, antioxidants, biocides and/or deacidification agents.
- 7 Process according claims 6, wherein the stabilising agent is a
 deacidification agent.
 - 8 Process according to claim 7, wherein the deacidification agent comprises a base selected from basic alkaline earth metal derivatives, in particular magnesium or calcium compounds or salts.
 - 9 Process according to claim 7 or 8, wherein the deacidification agent comprises a solvent selected from alcohols, in particular having 1 to 4 carbon atoms, and non-halogenated or halogenated hydrocarbon solvents or ethers.
 - 10 Process according to anyone of claims 7 to 9, wherein the deacidification agent comprises a hydrofluoroalkane, preferably selected from HFC-227ea and HFC-134a.

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- 11 Process according to claim 10, wherein the deacidification agent is a composition of magnesium propylcarbonate, propanol and HFC-227ea.
- 12 Process according to anyone of claims 1 to 11, wherein the treatment is carried out for a duration of from 1 to 50 hours.
- 5 13 Process according to anyone of claims 1 to 12, wherein the cellulosic material is not dried before the treatment.
 - 14—Process according to anyone of claims 1 to 12, wherein the cellulosic material is dried before the treatment so that it looses about 1% or 2% of moisture content weight by weight.
- 10 15 Process according to anyone of claims 1 to 14, which comprises:
 - (a) cooling the stabilising agent;
 - (b) contacting the cellulosic material and the stabilising agent cooled in step (a), preferably in a treatment chamber which has optionally been cooled before introducing the cellulosic material;
- (c) optionally, separating excess quantities of stabilising agent or constituents of the stabilising agent from the cellulosic material;
 - (d) optionally, recovering excess quantities or constituents separated in step (c).
 - 16 Process according to anyone of claims 1 to 14, which comprises
- (a) providing a treatment chamber equipped with a cooling device, which
 20 treatment chamber is cooled before the treatment;
 - (b) introducing cooled cellulosic material into the treatment chamber;
 - (c) supplying the optionally cooled stabilising agent to said treatment chamber so as to contact the stabilising agent with the cellulosic material;
- (d) optionally, separating excess quantities of stabilising agent or constituents of the stabilising agent from the cellulosic material;
 - (e) optionally, recovering excess quantities or constituents separated in step (d).

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- 17 Process according to anyone of claims 1 to 14, which comprises
- (a) cooling the cellulosic material and optionally cooling the stabilising agent;
- (b) contacting the cellulosic material cooled in step (a) and the stabilising agent optionally cooled in step (a) in a treatment chamber;
- 5 (c) optionally, separating excess quantities of stabilising agent or constituents of the stabilising agent from the cellulosic material;
 - (d) optionally, recovering excess quantities or constituents separated in step (c).
 - 18 Process according to claim 17, whereby the treatment chamber is not cooled in step (b).
- 10 19—Process according to claim 17 or claim 18, wherein both cellulosic material and stabilizing agent are cooled prior to contacting them in the treatment chamber.